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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. MSC-23049-3

First Inventor or Application Identifier

G. Dickey Arndt

Title

Microwave Medical Treatment Apparatus and Method

Express Mail Label No.

EF775095765US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☐ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 54]  
(preferred arrangement set forth below)
- Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
4. Oath or Declaration [Total Pages 3]
- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
- c. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

\*NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28)

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1 449 ☐ Copies of IDS Citations
11. ☒ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \* Small Entity Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☒ Other: Letter containing the Certificate of Mailing and Copy of the Specifications, drawings, & Oath for Serial number 09/511,961.

**16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment.**

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP)  
Prior application information: Examiner R. Carter

of prior application No. 09 / 511,961

Group / Art Unit: 3736

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**17. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name	NASA Johnson Space Center				
	Attn: Mail Code HA/Hardie R. Barr				
Address	2101 NASA Road One				
City	Houston	State	TX	Zip Code	77058
Country	USA	Telephone	281-483-1003	Fax	281-244-8452

Name (Print/Type)	Hardie R. Barr	Registration No. (Attorney/Agent)	31,480	
Signature	Hardie R. Barr		Date	12-18-00

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231  
(This Form Electronically Generated (9/98))

National Aeronautics and  
Space Administration

Patent Application

Headquarters  
Washington, DC 20546-0001NASA Docket No. MSC-23049-3

Class \_\_\_\_\_ Subclass \_\_\_\_\_

Prior Application:

Examiner R. Carter Art Unit 3736THE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, DC 20231
 JC760 U.S. PTO  
 09/746542  
 12/18/00

Sir:

 This is a request for filing a ☐ continuation, ☒ divisional application under 37 CFR 1.60 of prior application, Serial No. 09/511,961, filed on (Date) 2/23/00,
for (Title of invention) Microwave Medical Treatment Apparatus and Method

by the following named inventor(s):

FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	Arndt	G.	Dickey
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Friendswood	Texas	U.S.A.
POST OFFICE ADDRESS	STREET NUMBER AND NAME	CITY	STATE AND ZIP CODE/COUNTRY
	P. O. Box 589	Friendswood	Texas 77546 U. S. A.
FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	Carl	James	R.
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Houston	Texas	U. S. A.
POST OFFICE ADDRESS	STREET NUMBER AND NAME	CITY	STATE AND ZIP CODE/COUNTRY
	16122 Rill Lane	Houston	Texas 77062 U. S. A.
FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	Ngo	Phong	
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Friendswood	Texas	U. S. A.
POST OFFICE ADDRESS	STREET NUMBER AND NAME	CITY	STATE AND ZIP CODE/COUNTRY
	1508 Azalea Trail	Friendswood	Texas 77546 U. S. A.

- ☒ 1. Enclosed is a copy of the prior application, including the specifications, claims, drawings and declaration as originally filed. I hereby certify that the attached papers are a true copy of prior application, Serial No. 09/511,961, as originally filed on 2/23/00, and further that this statement was made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.
- ☒ 2. Cancel in this application original claims 1-21 and 40-59 of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)

- ☒ 3. A preliminary amendment is enclosed. (Claims added by this amendment have been property numbered consecutively beginning with the number next following the highest numbered original claim in prior application.)

The filing fee is calculated on the basis of claims existing in the prior application as amended at 2, above.

CLAIMS				
FOR  (1)	NUMBER		RATE  (4)	CALCULATIONS  (5)
	FILED (2)	EXTRA (3)		
TOTAL CLAIMS	18-20	0	X \$18	= 0
INDEPENDENT CLAIMS	2-3	0	X \$78	= 0
MULTIPLE DEPENDENT CLAIMS (if applicable) -----				= 0
BASIC FEE -----				+ \$710.00
TOTAL				= \$710.00

- ☒ 4. The Commissioner is hereby authorized to charge any fees which may be required to effect only the filing of this application under 37 CFR 1.16 or credit any overpayment to Deposit Account No. 14-0116

- ☒ 5. Amend the specification by inserting before the first line the following sentence:  
"This application is a ☒ division, ☐ continuation of application Serial No. 09/511,961 filed 2/23/00,"

- ☐ 6. New formal drawings are enclosed.

- ☒ 7. The prior application is assigned of record to:  
Government of the United States of America as represented by the Administrator, National Aeronautics & Space Administration

- ☒ 8. The Power of Attorney in the prior application is to (Name and registration number):

Hardie R. Barr, Reg. #31,480

John G. Mannix, Reg. #27,254

Edward K. Fein, Reg. #24,559

Sue H. Palk, Reg. #36,422

James M. Cate, Reg. #25,181

Gary G. Borda, Reg. #35,455

- ☐ 9. A Power of Attorney is enclosed.

- ☒ 10. Also enclosed: Extra copy of this form, Letter (1 pg) containing the Express Mailing Certificate & USPTO Form PTO/SB05

Address all future communications to (Name, address and telephone number):

Hardie R. Barr, Office of Patent Counsel, Code HA, NASA Road One, Houston, TX 77058-3696

Telephone: 281-483-1003

Fax 281-244-8452

Reg. 18, 2000  
(Date)

Hardie R. Barr, Reg. #31,480

(Signature - Attorney of Record) (Registration Number)

Address of Signator:

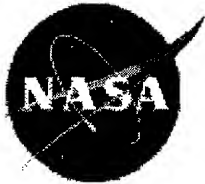
NASA Johnson Space Center, 2101 NASA Road One

Houston, TX 77058-3696

Filed under Rule 37 CFR § 1.34(a)

National Aeronautics and  
Space Administration

Patent Application

Headquarters  
Washington, DC 20546-0001NASA Docket No. MSC-23049-3

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Hardie R. Barr, Office of Patent Counsel, Code HA, NASA Road One, Houston, TX 77058-3696

Telephone: 281-483-1003

Fax 281-244-8452

Dec. 18, 2000  
(Date)

Hardie R. Barr, Reg. #31,480

(Signature - Attorney of Record) (Registration Number)

Address of Signator:

NASA Johnson Space Center, 2101 NASA Road One

Houston, TX 77058-3696

Filed under Rule 37 CFR § 1.34(a)